Owner's Manual

Carlton

PROFESSIONAL
TREE EQUIPMENT

Model 900

Machine Serial # _____
Engine Model & Spec # _____
Engine Serial # _____
Purchase Date _____
Dealer _____

Carlton
J.P. Carlton Company
Div. D.A.F. Inc.
121 John Dodd Road
Spartanburg S.C. 29303
Ph. (864) 578-9335
Fax (864) 578-0210
www.stumpcutters.com

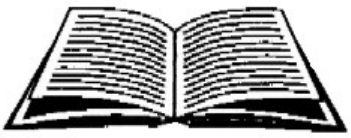
DIESEL ENGINE EXHAUST WARNING

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproduction harm.

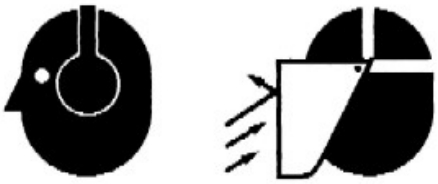
⚠ DANGER



No inexperienced person may operate machine. Inexperience may cause injury.

Read operation manual.

⚠ WARNING



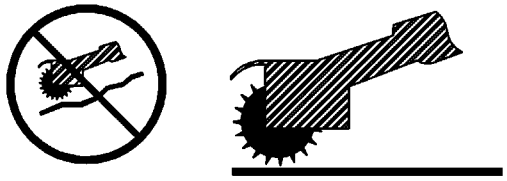
Loud noise. Flying debris.

Hearing and eye protection must be worn while in operation.

⚠ WARNING

If this equipment is turned over, you will cause engine damage, hydraulic damage, and possible personal injury.

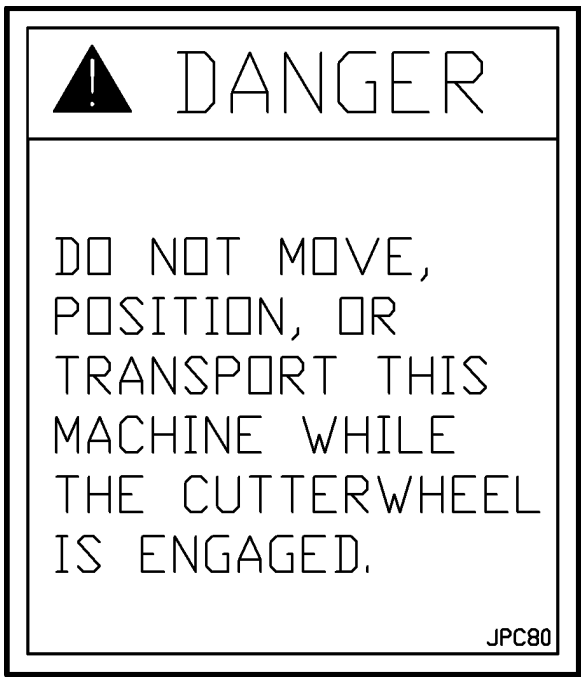
⚠ WARNING



This machine may tip over sideways if operated on non level surface.
Always use caution when operating on non-level surface.

DANGER
Stay clear while machine is in operation.
Cutter wheel will cause severe injury or death.
JPC27

DANGER
Pinch Points
Keep body parts away while in operation.
JPC09


DANGER
DO NOT MOVE, POSITION, OR TRANSPORT THIS MACHINE WHILE THE CUTTERWHEEL IS ENGAGED.
JPC80

WARNING
SEVERE ENGINE DAMAGE WILL OCCUR IF THIS ENGINE IS OPERATED AT AN ANGLE GREATER THAN 25°
PROPER ENGINE OIL LEVEL MUST BE MAINTAINED TO ACHIEVE MAXIMUM ANGLE OF OPERATION OF 25°
(SEE ENGINE OWNER'S MANUAL FOR PROPER OIL LEVEL)
0700075A

STUMP GRINDER LIMITED WARRANTY

J.P. Carlton Co. Inc., hereafter referred to as the "Manufacturer", warrants each new Carlton Grinder to be free of defects in workmanship and material for a period of one year.

This warranty takes effect upon delivery to the original retail purchaser. The manufacturer, at its option, will replace or repair, at a point designated by the manufacturer, any parts which appear to have been defective in material or workmanship. The manufacturer is not responsible for consequential damages.

This warranty will not apply if the grinder is not operated in a manner recommended by the manufacturer. The following examples would void warranty:

1. The grinder has been abused.
2. The machine is involved in or damaged by an accident.
3. Repairs or attempted repairs were made without prior written authorization.
4. Including but not limited to repairs made due to normal wear.

The owner is responsible for all regular maintenance as explained in the operators' manual. Neglect in regular maintenance or failure to replace normal wear items such as teeth, pockets, lubrication oils, filters, belts, bearings, etc. may void warranty.

This warranty is expressly in lieu of any other warranties, expressed or implied, including any implied warranty or merchantability of fitness for a particular purpose and of any non-contractual liabilities including product liabilities based upon negligence or strict liability. J.P. Carlton Co. Inc. will not be liable for consequential damages resulting from breach of warranty.

IT IS NECESSARY TO RETURN THE WARRANTY VALIDATION FORM AND NOTIFY J.P. CARLTON CO. INC. IN WRITING WITHIN TEN (10) DAYS FROM DELIVERY DATE TO VALIDATE THIS WARRANTY.

NOTE: This warranty applies only to new and unused equipment or parts thereof manufactured by J.P. Carlton Co. Inc. ANY MACHINES USED FOR LEASE OR RENTAL - WARRANTY IS LIMITED TO 90 DAYS FROM FIRST DAY OF INITIAL SERVICE.

NOTICE: All power units and associated components are *NOT* warranted by J.P. Carlton Co. Inc. or their dealers. It is the customers' responsibility to return machine to the local engine distributor.

INFORMATION PHONE NUMBERS TO FIND YOUR LOCAL ENGINE & PARTS SERVICE CENTERS:
Honda ..... 1-770-497-6400 (GA-Eastern Time Zone)
Kohler Engines..... 1-800-544-2444 (Toll Free)
Briggs & Stratton Engines..... 1-800-233-3723 (Toll Free)
Lombardini ..... 1-770-623-3554 (GA-Eastern Time Zone)
Deutz Engines..... 1-800-241-9886 (Toll Free)
John Deere Engines ..... 1-800-533-6446 (Toll Free)
Caterpillar ..... 1-877-636-7658 (Toll Free)
Kubota ..... 1-847-955-2500 (IL-Central Time Zone)
Kawasaki Engines..... 1-616-949-6500 (MI-Eastern Time Zone)
Wisconsin Engines ..... 1-800-932-2858 (Toll Free)
Onan Engine ..... 1-800-888-6626 (Toll Free)

In order to process any warranty claims, it is the owners' responsibility to report claims promptly to us or our authorized dealer from whom the equipment was purchased. It is necessary to include the following information on any and all request for warranty:

1. Dealer from whom purchased
2. Date of delivery
3. Serial number of unit
4. Model number of unit
5. Engine make and serial number
6. Length of time in use
7. Date of failure
8. Nature of failure

EXPLANATION OF LIMITED WARRANTY

The manufacturer will not reimburse the customer or dealer labor cost incurred for installing “bolt-on” or “slip-on” items, such as pumps and motors, bearings, belts, pulleys, etc. The manufacturer will provide replacement parts at no cost to the customer for defective parts during the warranty period. Defective parts must be returned to J.P. Carlton Company. It will be the customers’ responsibility to install the replacement parts unless arrangements are made with the selling dealer.

The manufacturer will not reimburse travel cost to servicing dealer. It is the customers’ responsibility to deliver machine to dealers’ facility, unless other arrangements have been agreed to between the selling dealer and the customer.

The manufacturer may elect, at its discretion, to reimburse reasonable labor cost to customer or dealer for major defect repairs. Prior approval must be obtained from J.P. Carlton Company Inc.

IMPORTANT NOTICE

1. **AIR FILTER MAINTENANCE IS CRITICAL ON STUMP GRINDING MACHINES. DIRT INGESTION WILL NOT BE WARRANTED BY THE ENGINE MANUFACTURER OR J.P. CARLTON COMPANY.**

2. **OIL AND OIL FILTER MAINTENANCE AND STAYING WITHIN THE LIMITS OF THE ANGLE OF OPERATION IS ALSO CRITICAL ON STUMP GRINDING MACHINES. STARVING THE ENGINE FOR OIL WILL NOT BE WARRANTED BY THE ENGINE MANUFACTURER OR J.P. CARLTON COMPANY.**

Warranty Validation Form

Congratulations on your purchase of a Carlton Stump Grinder. This product has been designed and manufactured to provide years of profitable service while minimizing maintenance and downtime. Please take the time now to complete this warranty validation form. This information is necessary for Carlton to instate your warranty.

Return Form To: J.P. Carlton Company, Div. D.A.F. Inc.
121 John Dodd Road
Spartanburg, SC 29303
Phone: 1-864-578-9335

Purchaser Information:

Company Name:_____ Street Address:_____
City:_____ State:_____ Zip Code:_____
Telephone:_____Contact:_____

Machine Information:

Model Number :_____ Engine Model :_____
Serial Number :_____ Serial Number :_____

Dealer Information:

Dealer Name:_____ Street Address:_____
City: _____ State:_____ Zip Code:_____
Contact Name: _____

1. _____ Customer has been instructed on operation and safety aspects of operating the equipment.
2. _____ Customer has been advised not to reach into cutter wheel area.
3. _____ Customer has been advised to stop machine and remove key before performing any type of maintenance.
4. _____ Customer has been warned not to operate the machine without the cutter wheel guard in place.
5. _____ Customer has been furnished with all parts and operators manuals.
6. _____ Customer has been instructed on equipment maintenance schedules and procedures.
7. _____ Customer has been advise that the engine or power unit that is used on this machine is warranted by the engine manufacturer and ***NOT*** **J.P. Carlton Company.** All engine warranty issues should be addressed to the local engine dealer.
8. _____ Customer understands the importance of air and oil filter maintenance, and the importance of staying within the angle of operation of the engine. If either of these is not adhered to, the engine warranty is ***VOID***.
9. _____ Customer understands to keep locking collars tight and purge bearings with grease.
10. _____ All operation and warning decals are properly displayed on equipment.
11. _____ Customer understands it is his responsibility to train all operators on operator safety.

I have inspected this equipment and find it in good working condition. To the best of my knowledge, the customer and his personnel are aware of the above procedures.

Date: _____ Signed: _____
Dealer Representative

The equipment has been thoroughly checked by the above named dealer representative, and I am satisfied with his instructions.

Date: _____ Signed: _____
Purchaser

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FOREWORD

Congratulations on your purchase of a new Carlton® Professional Stump Grinder! Carlton Stump Grinders have a reputation for superior performance and reliability. A machine is not profitable if it's broken-down and we do our absolute *best* to help you avoid costly downtime. Each and every machine has been *over* designed and overbuilt to ensure years and years of trouble-free operation. In this, we take pride.

The Carlton Model 900 is designed and intended to be used in unique situations where size and maneuverability are foremost. As a result, the Model 900 has it's own unique operational requirements.

Read this manual carefully and **TAKE RESPONSIBILITY** for thoroughly familiarizing yourself with the controls and the concepts behind the operation of this machine before attempting to operate it. Slowly experiment with the controls and gradually work yourself up to the full capabilities of this machine. The Carlton Model 900 is a profitable professional stump grinder. Read this manual. Use proper safety precautions and use common sense and your "OX" will perform like its namesake. If getting more work done in a day, with less trouble, is your idea of good business, then you'll *love* your new Carlton Stump Grinder!

We welcome your suggestions on how we might better build our machines. We solicit any and all questions concerning the safe operation or proper servicing of your new stump grinder.

Please feel free to write to us with any comments.
We'll enjoy hearing from you!

MACHINE FEATURES

- Gas Power
- Heavy construction
- Tapered roller bearings on cutter wheel.
- 1/2” thick Blanchard ground cutter wheel
- Low maintenance, multiple drive belt
- 12 carbide tipped cutter teeth
- 24” width to clear narrow fence gates
- Axle bearings
- Safety tie down loops
- Epoxy primer
- Dupont Imron® protective finish
- Premium tires
- Heavy duty rubber and metal chip guards
- Replaceable chip flap
- Easy engine belt adjustment
- Heavy duty industrial clutch
- Disk brake to lock pivoting wheel
- High capacity air filtration system

We Pride Ourselves
in the strength and quality of each and every machine

Engine	Honda 9 HP
Weight	220 lbs.
Length	77”
Height	44”
Width	24”
Cutting Depth Below Ground	9”
Cutting Height Above Ground	21”
Number of Teeth on Cutter Wheel	12
Cutter Wheel Diameter W/Teeth	12 1/4”
Cutter Wheel Thickness	1/2” Blanchard Ground
Fuel Tank Capacity	1.59 Gallons

Read and understand this manual as well as the engine manual supplied with your unit before operation. Be thoroughly familiar with controls and operation of equipment. Know how to stop unit quickly in case of an emergency.

Understand and follow each Danger, Warning, Caution and Instruction decal installed on equipment.

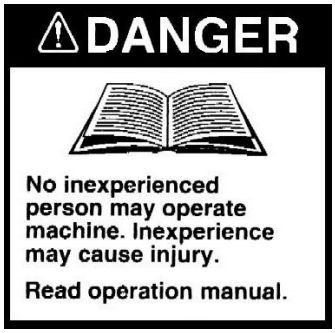
NEVER allow children to operate equipment. DO NOT allow adults to operate unit without proper instructions.

PERSONAL PROTECTION:

- ❖ Wear face shield and hearing protection
- ❖ Keep clear of cutter wheel
- ❖ Keep spectators away
- ❖ Keep away from moving parts

WARNING (AVISO)
TO PREVENT SERIOUS INJURY OR DEATH FROM MOVING PARTS:
* KEEP HANDS, FEET, AND CLOTHING AWAY FROM MOVING PARTS.
* CLOSE ALL GUARDS AND SHIELDS BEFORE OPERATING MACHINERY.
PARA EVITAR LA LESION O LA MUERTE:
* MANTENGANSE A DISTANCIA LAS MANOS, LOS PIES Y LA ROPA DE LAS PARTES MOVIMIENTOS DE LA MAQUINA.
* CIERRAN TODAS LAS PROTECTORAS QUE HAY ANTES QUE HAGAN FUNCIONAR.

P/N 070000A



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- Read and understand the operations manual thoroughly.
- Do not operate around water, gas, power or phone lines. Call utilities to check.
- Avoid fences and other objects (buried junk, metal, etc.). Be aware of the possibility of foreign objects imbedded in or around the stump.
- Stand clear of cutter wheel.
- Never leave the controls unattended while in operation.
- Disengage cutter wheel and let come to a complete stop before getting near work area (i.e. clearing rocks, chips, etc.).
- Stop engine when repairing or adjusting machine or drive belts.
- Allow pulleys or other moving parts to cool sufficiently before touching.
  Hot machine parts can cause severe burns.
- Do not allow moving machine parts to pinch body parts. Maintain a safe distance from moving parts while in operation.
- Do not run the machine without a complete number of teeth in the cutter wheel.
- Do not touch engine while running or hot (serious burns may result).
- Do not refuel engine while hot. Danger of fire or explosion exists.
- Never allow bystanders to stand and watch machine in operation without proper hearing and eye protection.

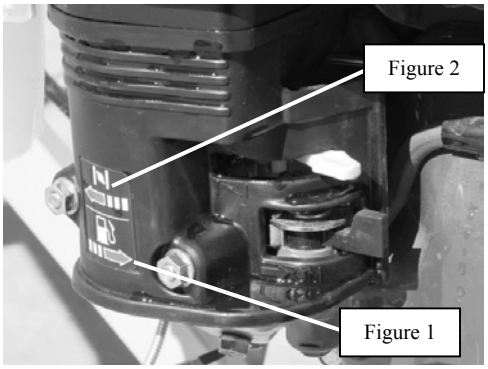
P/N 0700027

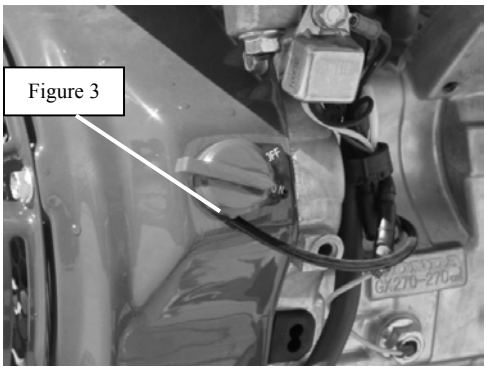
- Check engine oil at dipstick. Take reading with engine sitting level. Add recommended oil as required.
- Check fuel filter for debris or water.
- Check fuel supply before starting engine. DO NOT fill gasoline tank indoors, when engine is running, or while engine is still hot. Allow engine to cool several minutes before removing fuel cap. Wipe off any spilled gasoline before starting engine.
- Check condition and tightness of belts. (See Servicing Belts)
- Check for any loose, broken or missing cutter teeth and pockets.
- Inspect machine for tightness, wear, or leakage. Replace if necessary.
- Check air filters & pre-cleaners. Inspect dry air cleaners. Do not blow out or tap on ground. **REPLACE WITH MANUFACTURER RECOMMENDED AIR FILTER ONLY**.
- Check condition of tires. Inflate to proper pressure.

Honda Engines		
Fuel	Type	Unleaded gasoline with a pump octane rating of 86 or higher.
	Capacity	GX270: 1.59 US gal GX390: 1.72 US gal
Engine Oil	Type	SAE 10W-30, API SF or SG, for general use (see engine manual)
	Capacity	1.16 US qt
Spark Plug	Type	NKG: BPR6ES, DENSO:W20EPR-U
	Gap	0.028-0.031 in (0.70-0.80mm) (see engine manual)
Carburetor	Idle Speed	1,400 ± 150 rpm (see engine manual)
Maintenance	Before each use	Check engine oil level.. Check air filter.
	First 20 hours	Change engine oil.
	Subsequent	See engine manual. (page 23)

STARTING - READ ENGINE MANUFACTURERS OWNERS MANUAL BEFORE STARTING.

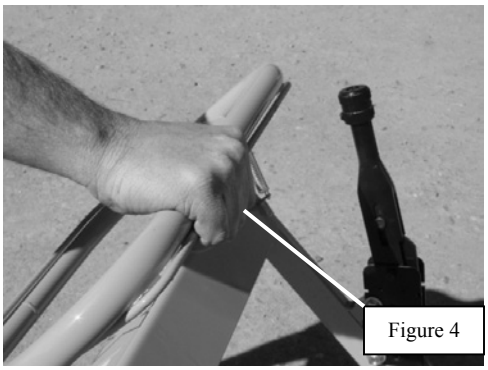
- Check all fluids before starting.
- **Cutter wheel will engage with increased RPM.**
- Inspect all connections, teeth, tires, etc. (See Daily Checklist).
- Start engine at idle speed and allow sufficient time for oil to circulate before proceeding.
  - Turn fuel shut-off valve to "**on**" position (See Figure 1).
  - Place the throttle control at the "**slow**" position.
  - Engage the Choke for cold weather operation (See Figure 2).
  - Turn engine On/Off switch to "on" (see figure 3).
  - Engage the operator presence bar (see figure 4).
  - Pull the starter handle firmly with a smooth, steady motion to start.
  - For a cold engine – Gradually return the choke control to the "off" position after the engine starts and warms up.





- Test controls for proper operation.

- **CUTTER WHEEL AUTOMATICALLY STARTS WITH INCREASED ENGINE SPEED.**
- **DO NOT OPERATE AROUND WATER, GAS, POWER OR PHONE LINES. IF IN DOUBT, CHECK BEFORE GRINDING.**
- **OPERATE EQUIPMENT ONLY WHERE THERE IS GOOD <u>VISIBILITY</u> AND LIGHT.**
- **WEAR FACE SHIELD AND HEARING PROTECTION.**
- **KEEP CLEAR OF CUTTING WHEEL AND MOVING MACHINE PARTS.**
- **KEEP CLEAR OF DISCHARGE AREA AT ALL TIMES. <u>DO NOT</u> PUT HANDS OR FEET NEAR ROTATING PARTS.**
- **KEEP SPECTATORS AWAY.**
- **NEVER LEAVE MACHINE UNATTENDED.**
- **NEVER DEPEND ON THE TO BRAKE TO HOLD THE MACHINE IN A STATIONARY POSITION.**



- **NEVER ATTEMPT TO MAKE ANY ADJUSTMENTS TO THE UNIT WHILE ENGINE IS RUNNING (EXCEPT WHERE SPECIFICALLY RECOMMENDED).**
- **KEEP ENGINE IN GOOD CONDITION. KEEP ALL SHIELDS IN PLACE AND SAFETY DEVICES OPERATING PROPERLY.**
- **DO NOT TOUCH EQUIPMENT PARTS THAT HAVE MIGHT BE HOT FROM OPERATION. BEFORE ATTEMPTING TO MAINTAIN, ADJUST OR SERVICE, ALLOW SUCH PARTS TO COOL.**
- **IF EQUIPMENT VIBRATES ABNORMALLY, STOP ENGINE AT ONCE. ABNORMAL VIBRATION IS A WARNING OF TROUBLE. REPAIR ANY DAMAGE BEFORE RESTARTING UNIT.**
- **WEAR EYE PROTECTION. WEAR STURDY FOOTWEAR. DO NOT WEAR LOOSE CLOTHING THAT MAY GET CAUGHT IN ROTATING PARTS.**

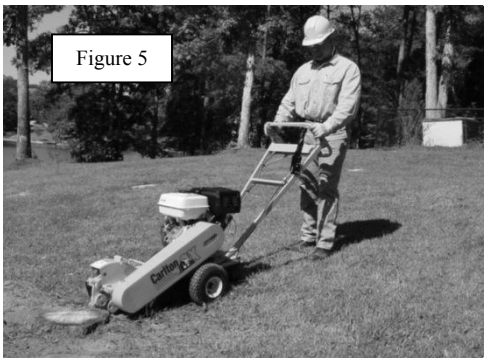


Figure 5

- Position machine in front of stump with cutter wheel a slight distance away from stump (see Figure 5).
- Apply the brake (see Figure 6).
  CAUTION: BRAKE ONLY LOCKS ONE WHEEL AND ALLOWS THE MACHINE TO PIVOT FROM SIDE TO SIDE.

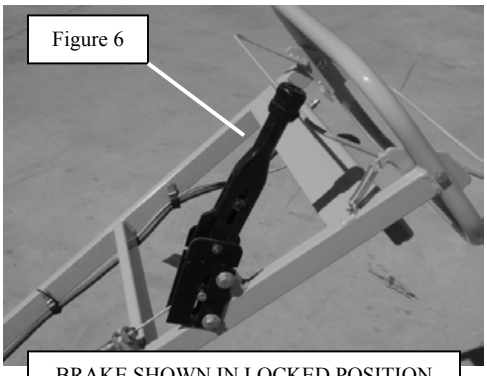


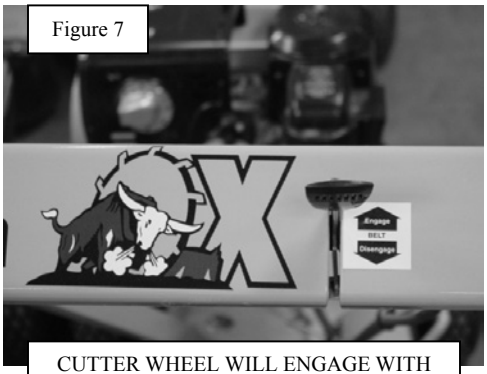
Figure 6

BRAKE SHOWN IN LOCKED POSITION

- Increase engine RPM to full (see Figure 7).
  CAUTION: CUTTER WHEEL IS ENGAGED WITH INCREASED RPM.
- Test controls for proper operation, speed, and unobstructed movement.
  CAUTION: ALWAYS STAND BEHIND THE CONTROL HANDLE; NEVER LEAVE THIS POSITION WHILE CUTTER IS RUNNING.
- **Rotate the cutter head back and forth, around the locked left pivot wheel working down to the desired depth (see Figure 8).**

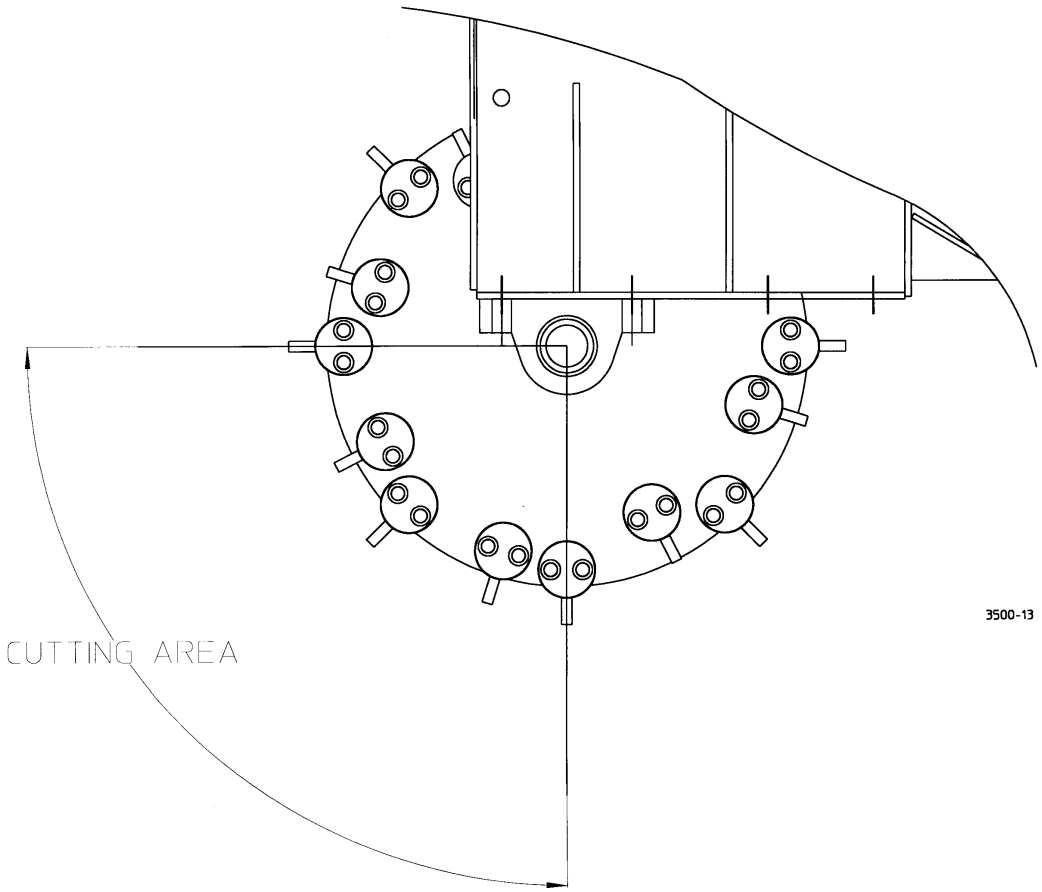
- Unlock the brake, move the machine further forward, reset the brake, and resume the grinding process.
- Should there be excessive chip build-up shut off cutter and move out of position and rake away chip build-up then start to cut again.
- Continue in this manner until stump has been removed.
- Reduce engine speed to idle. Turn off motor.
- **Allow cutter wheel to come to a complete stop before inspecting.**

Figure 7

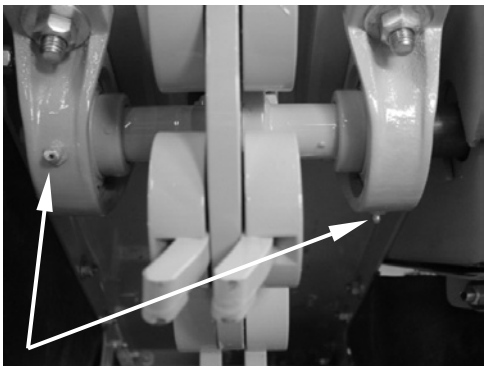


CUTTER WHEEL WILL ENGAGE WITH INCREASED RPM.

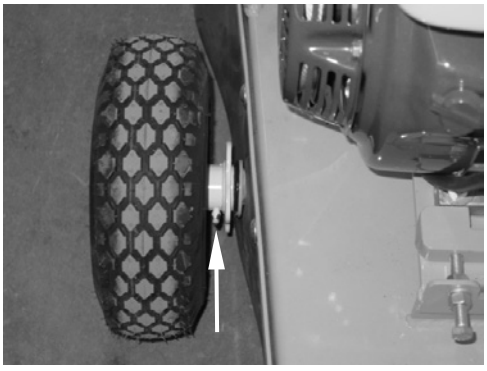
For optimal performance, the stump should be cut with the portion of the cutter wheel shown. **NEVER UNDERCUT THE STUMP.** Undercutting the stump can cause severe kickback, vibration and component damage. **NEVER CUT THE STUMP FROM THE TOP.** The cutter wheel will throw debris up and toward the operator, instead of down and under the machine.



- Check engine oil at dipstick with engine sitting level. Add recommended oil and change oil as required. (See engine owner's manual.)



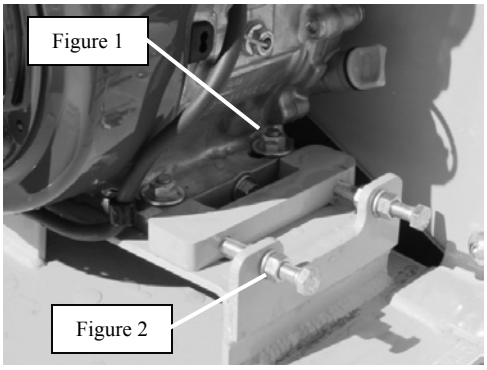
- Grease cutter wheel bearings **DAILY**. These bearings should be purged using grease DAILY**. Purge until new grease comes out.** Use Texaco® Starplex II grease.



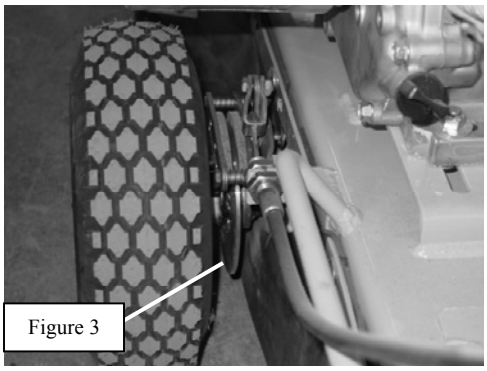
- Grease wheel bearings **WEEKLY**. These bearings should be purged using grease WEEKLY**. Purge until new grease comes out.** Use Texaco® Starplex II grease.

- Check v-belt for proper tension by removing cover.
- Always use Carlton recommended belts. They are available through your dealer or from the factory.

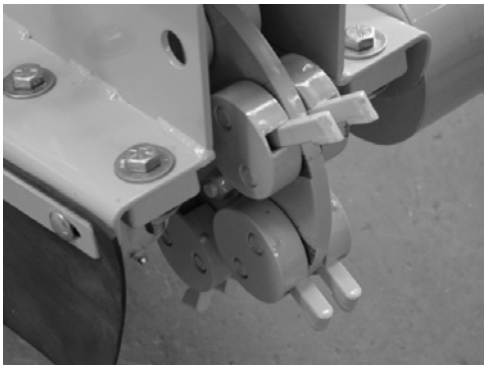
- To adjust V-belt tension, loosen the four bolts on the engine plate (See Figure 1). Then, equally adjust engine slide plate bolts to desired position (See Figure 2).
- Proper tension of drive belt is 5/32" deflection at center of span between pulleys with 10 lbs. of pressure applied.
- Too much tension results in excessive wear and stress on flywheel shaft bearings.
- Belts tend to "seat-in" during the first few hours of operation. Carlton recommends adjustment of belt tension after the first two hours of operation.
- Replace belts when worn or when repeated adjustments are necessary. Belts should never get so loose that all of the adjustment capability is used.



- Check break pads for wear (See Figure 3).



- Check cutter wheel, pockets, and teeth for wear. If any repair is needed, see "Servicing cutter wheel" Section for further instruction.



- Make sure all teeth and pockets are tightened.
- Tighten pocket bolts to 150 ft-lbs.

TROUBLE SHOOTING GUIDE

COMPLAINT	CAUSE	CORRECTION
Engine will not start. (see Engine Manufacturer Manual for further information.)	• Engine switch set to OFF position. • Operator presence bar not engaged.	• Turn on. • Hold handle while starting.
Belt Squeal.	• Belt tension too loose. • Belt out of line.	• Tighten. • Align Pulleys.
Cutter wheel vibration.	• Tooth missing. • Pocket out of balance. • Improper tooth arrangement.	• Replace missing teeth. • Always replace pockets in pairs across from each other. • Install correctly with like pairs of teeth directly across from each other.
Cutter wheel throwing teeth.	• Bad pocket. • Dirt in pocket • Worn cutter wheel • Teeth set too far out of pocket.	• Replace pocket. • Clean pocket and replace missing teeth. • Replace cutter wheel • Use gauge to set teeth correctly.
Cutter wheel breaking teeth.	• Teeth set too far out of pocket.	• Use gauge to set teeth correctly.
Cutter wheel stops turning.	• Engine belt broke. • Sheared key in shaft. • Broke cutter wheel shaft.	• Replace belt. • Replace key. • Replace shaft.
Bearing will not take grease.	• Grease fitting clogged.	• Replace fitting

SERVICING CUTTER WHEEL

SAFETY - DO NOT OPERATE MACHINE WITHOUT A FULL SET OF TEETH.

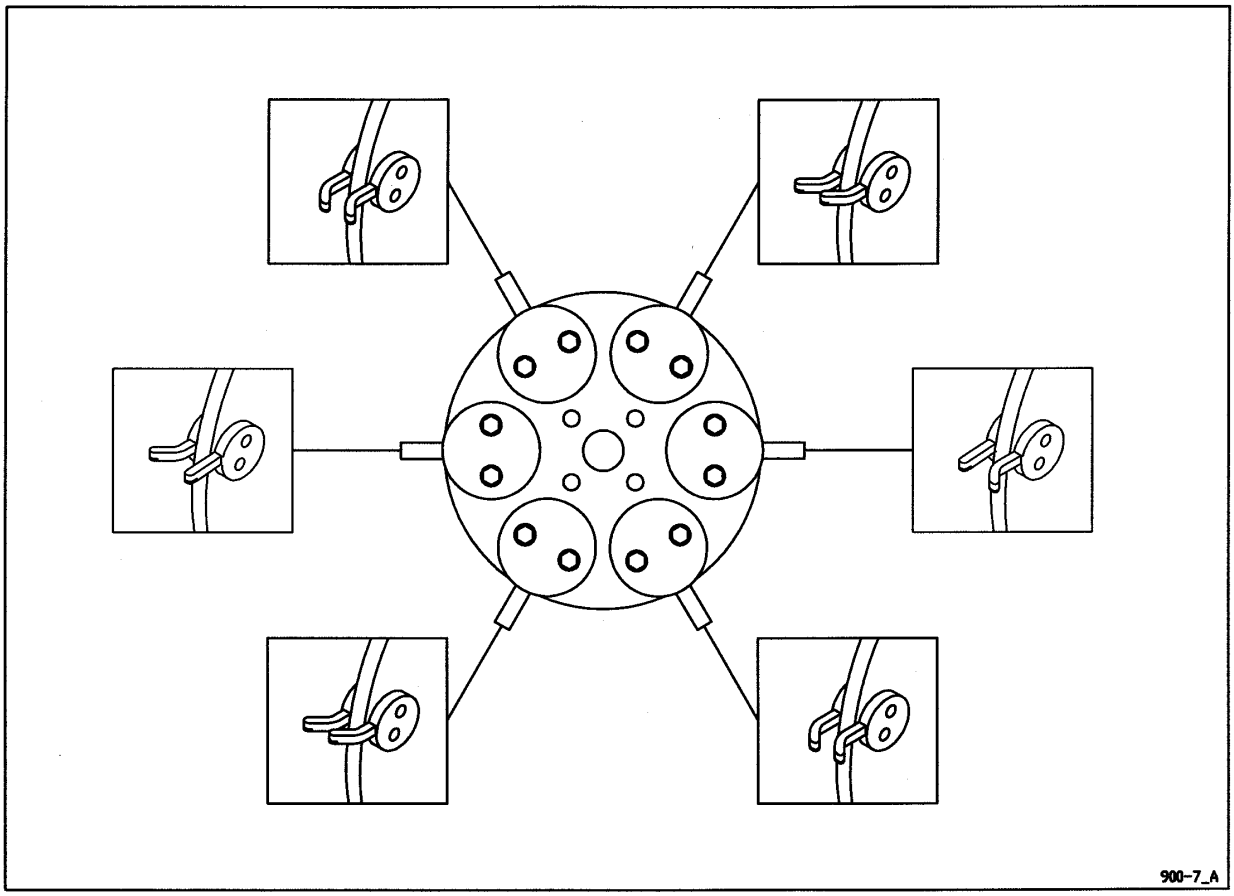
There are twelve (12) teeth to a complete set on the model 900. Two (2) straight teeth, five (5) left 25° teeth and five (5) right 25° teeth.

A locking pin is provided to hold cutter wheel in position during tooth removal and re-installation. Locking pin will only lock on outer teeth. **NEVER PLACE HAND ON CUTTER WHEEL TO HOLD IN PLACE WHILE CHANGING TEETH. BE SURE TO REMOVE PIN BEFORE OPERATING.**

A Tooth Setting Gauge **(P/N 0450111)** is provided with each machine for proper tooth installation. Line all teeth up with the inside edge of the groove in the gauge. Set ***ALL*** teeth to this edge.
See Cutter Wheel Assembly for breakdown.

TOOTH ARRANGEMENT

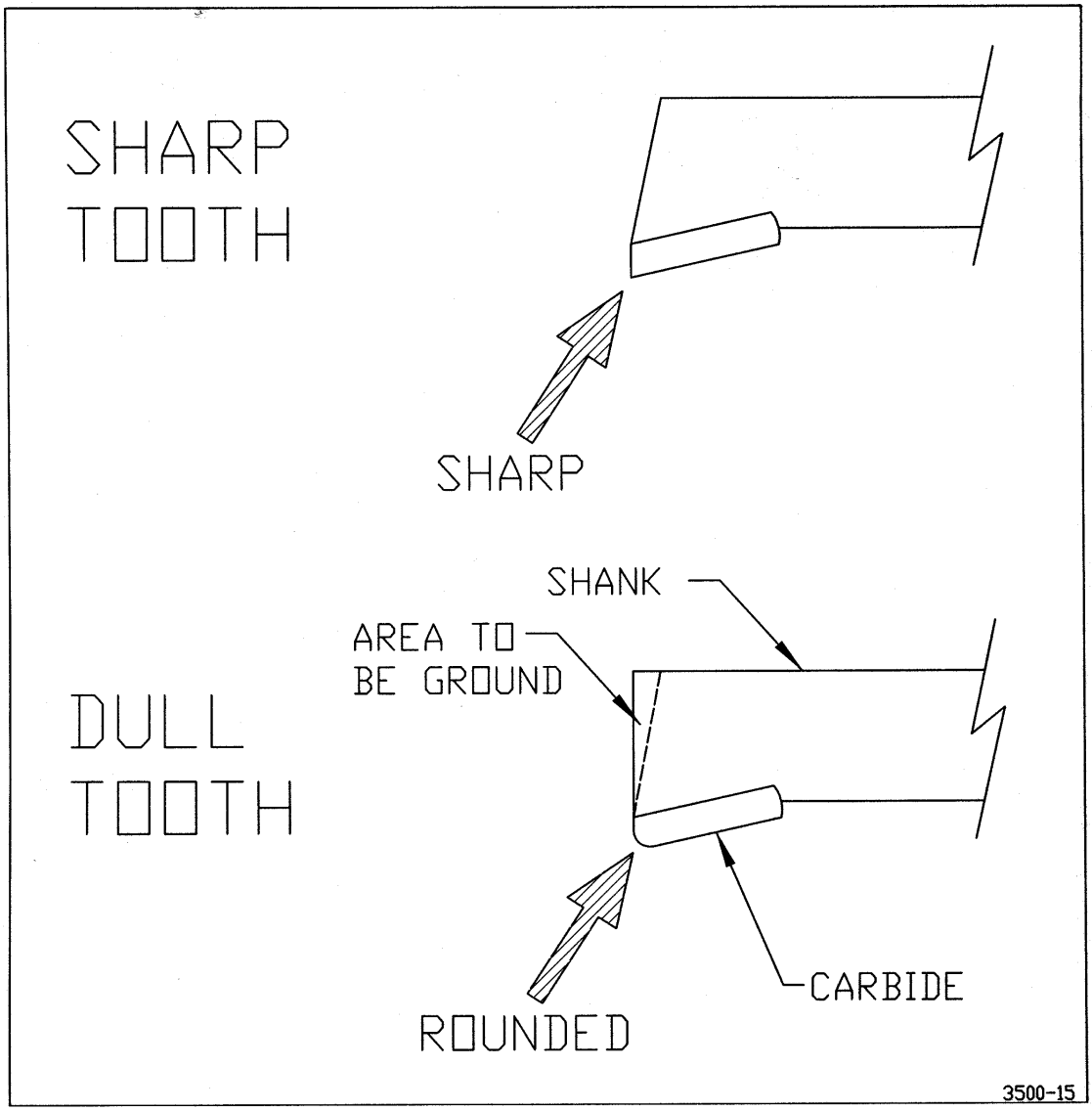
- Inspect pockets, teeth and bolts for damage and replace as required.
- When replacing pockets, always replace new pockets across from each other in order to prevent vibration.
- Replacement teeth must be carbide tipped and of like design as provided with the machine.
- Use anti-seize on threads to prevent bolts from "freezing up" in cutter wheel.
- When replacing complete set of teeth, be sure to duplicate original factory tooth arrangement.
- Torque bolts to 150 ft/lbs.



Opposing outside pockets carry like arrangements of teeth to cancel vibration.

- Straight teeth are mounted in ***TWO OPPOSING OUTSIDE POCKETS.*** A straight tooth must have a 25° tooth accompanying it in the same pocket set.
- The opposite pocket sets should have this same combination of straight and 25° teeth, except with positions reversed. Mounting these teeth opposite each other on the cutter wheel cancels damaging vibration.
- Mount two left teeth at one o'clock and seven o'clock and two right teeth at five o'clock and eleven o'clock according to the diagram in above picture.

TOOTH SHARPENING



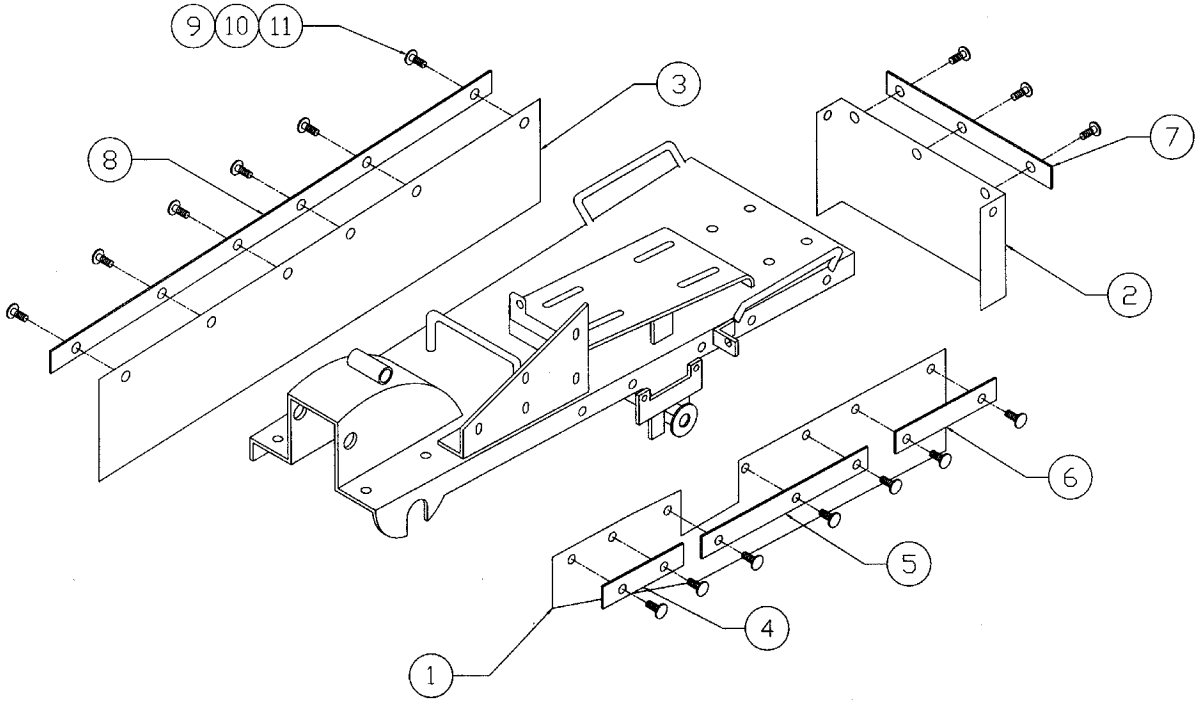
Begin by removing the exposed area of the steel shank shown above with a standard grinding stone to provide relief for the cut. After the shank has been ground, use a silicon carbide green stone to dress the carbide.

- **Cut the shank with a standard grinding stone and cut the carbide with a silicone carbide green stone or diamond rock.**

<u>CAUTION:</u> EYE PROTECTION ALONG WITH A FRESH AIR RESPIRATOR MUST BE WORN WHILE GRINDING CARBIDE.

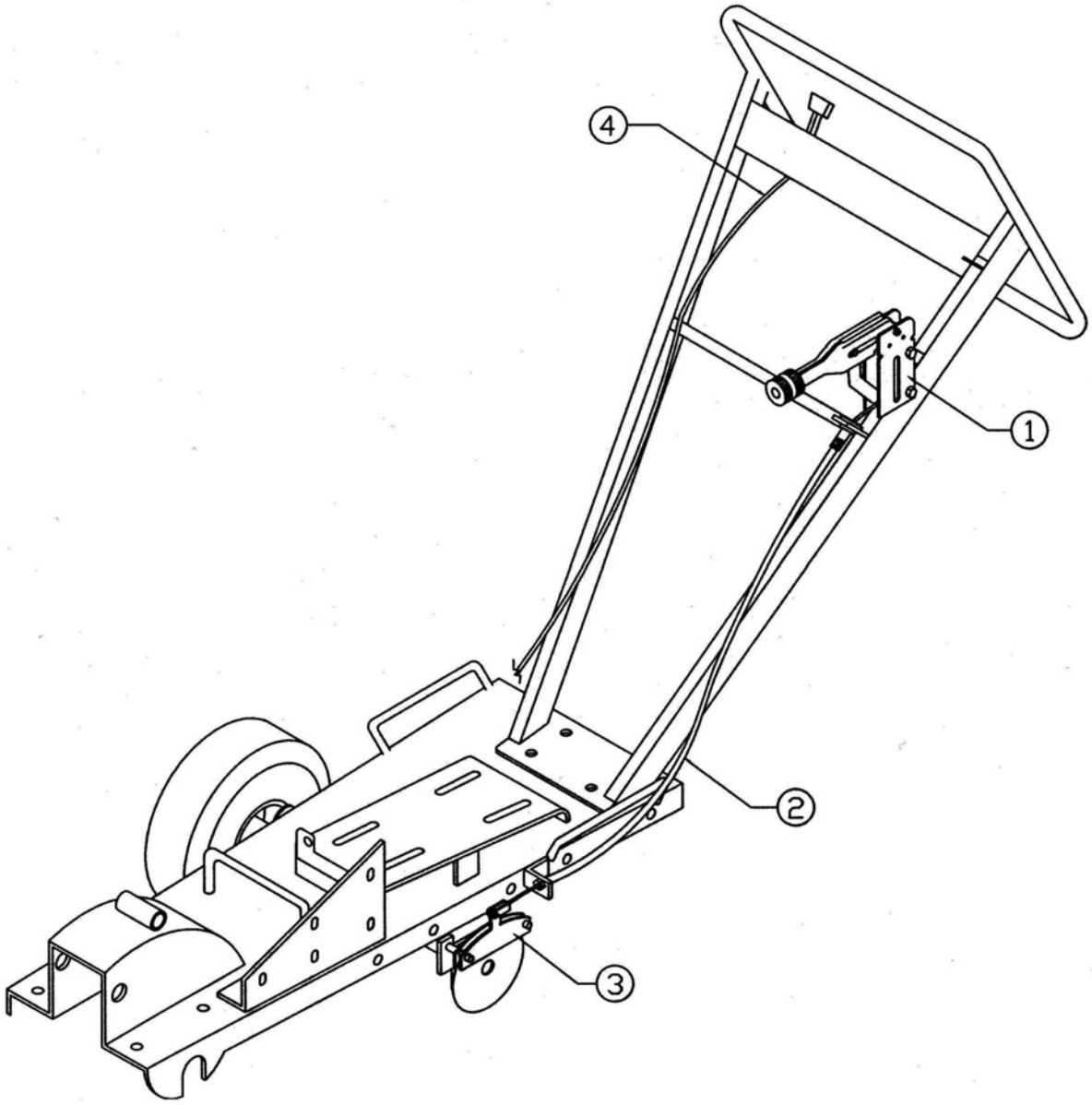
CHIP GUARD ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1	900108E	Chip Guard Skirt - Left	1
2	900108F	Chip Guard Skirt - Rear	1
3	900108G	Chip Guard Skirt - Right	1
4	900108	Chip Guard Bracket – Left (a)	1
5	900108A	Chip Guard Bracket – Left (b)	1
6	900108B	Chip Guard Bracket – Left (c)	1
7	900108C	Chip Guard Bracket - Rear	1
8	900108D	Chip Guard Bracket - Right	1
9	0150117	3/8”-16 x 1 1/4” Carriage Bolt	16
10	0150303	3/8” Flat Washer	16
11	0150207	3/8”-16 Lock Nut	16



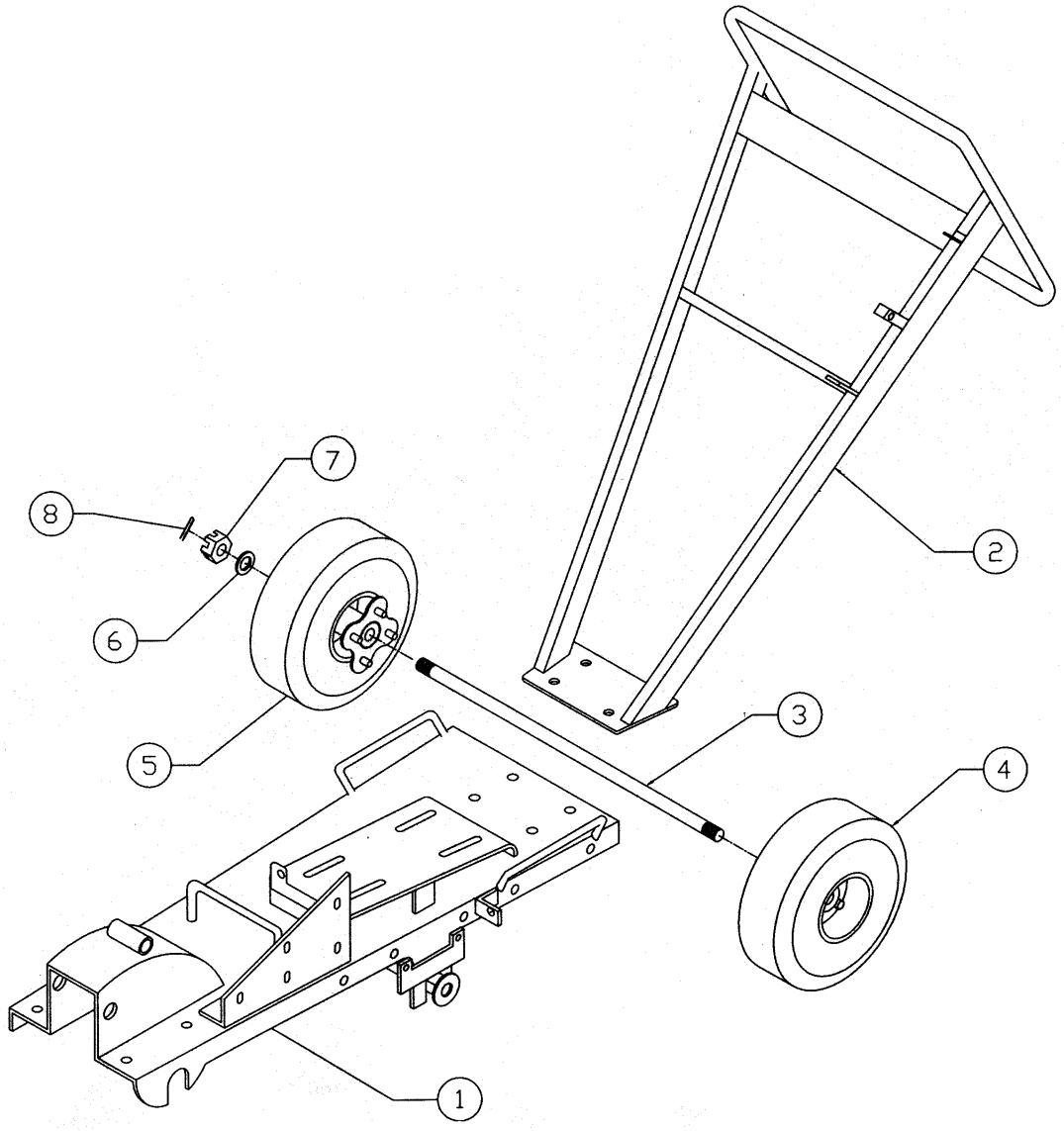
THROTTLE AND BRAKE ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1	0150510	Brake Lever Assembly	1
2	0150510A	Brake Cable	1
3	0150511	Brake Caliper Assembly	1
4	900111	Throttle Cable	1



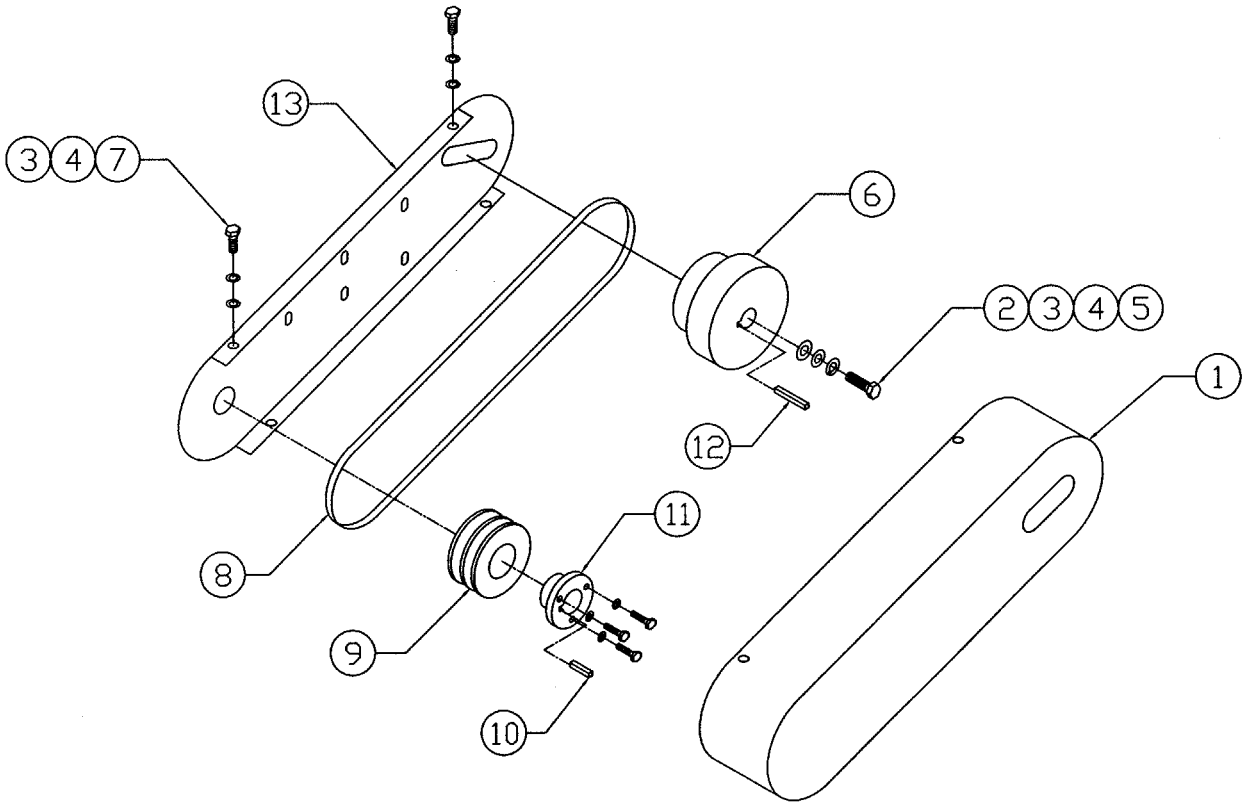
AXLE ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1	900100	Frame Weldment	1
2	900101	Handle Weldment	2
3	900107	Axle	1
4	900104	Wheel Assembly w/brake	1
5	0550008A	Wheel Assembly	1
6	0150231B	3/4” Flat Washer	2
7	0150231A	Castle Nut 3/4”	2
8	0150231C	Cotter Pin – 1/8”x 1 1/2”	2



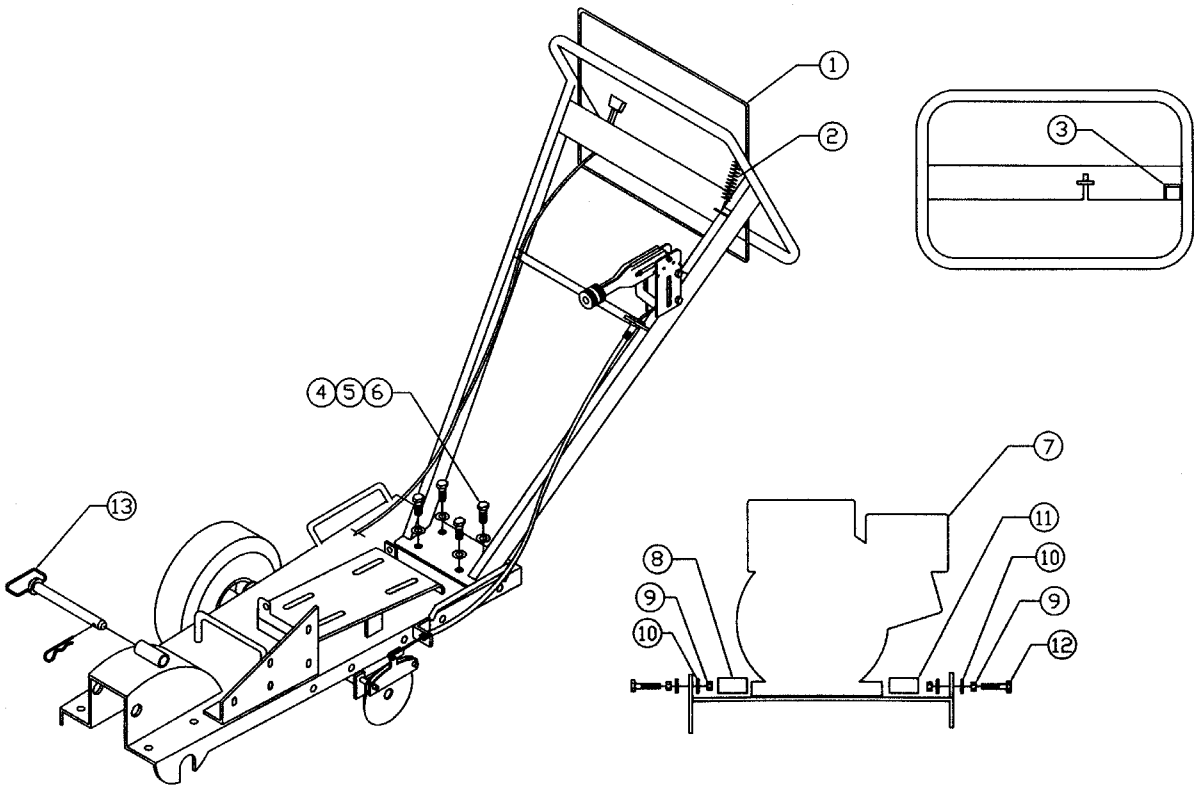
BELT GUARD ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1	900112	V-Belt Guard Cover	1
2	0150712	7/16” - 20 x 1 1/4”	1
3	0150404	3/8” Lock Washer	5
4	0150303	3/8” Flat Washer	5
5	0150304	1/2” Flat Washer	1
6	0250194	Clutch	1
7	0150118	3/8”-16 x 1”	4
8	0400134	V-Belt	1
9	0200298	Sheave	1
10	A160T03	1/4” x 1 1/4” Key	1
11	0250173	Bushing	1
12	A160T04	1/4” x 2” Key	1
13	900103	V-Belt Guard Back	1



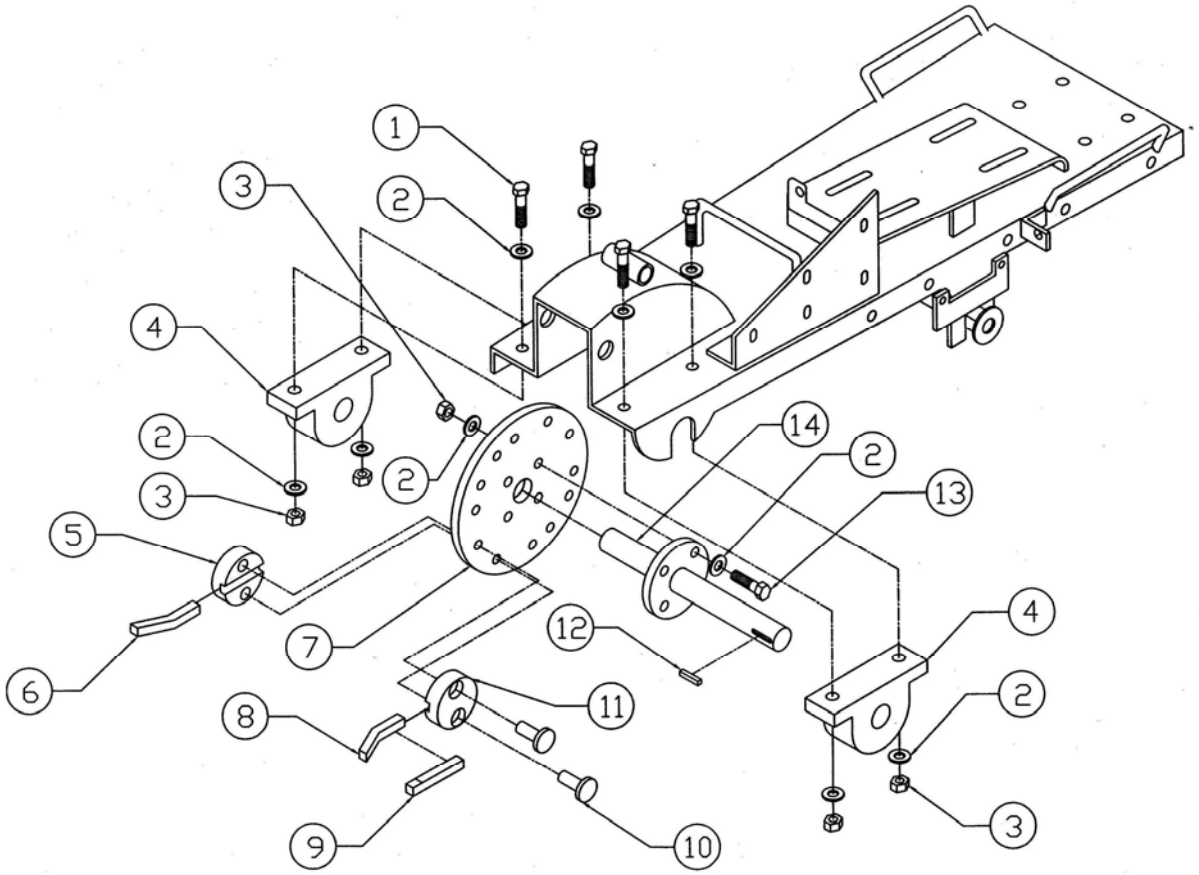
HARDWARE ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1	900105	Safety Shut-Off Bar	4
2	-	Spring	10
3	0350011E	Kill Switch	5
4	0150106	1/2”-13 x 1 1/4”	2
5	0150304	1/2” Flat Washer	6
6	0150206	1/2”-13 Lock Nut	3
7	0200111	13 HP Honda Engine	-
8	900109	Motor Positioning Brace - Front	3
9	0150207	3/8”-16 Lock Nut	3
10	0150303	3/8” Flat Washer	24
11	900110	Motor Positioning Brace - Rear	6
12	0150104	3/8”-16 x 2 1/2”	1
13	0150605	Hitch Pin – 6 1/4”	1



CUTTER WHEEL ASSEMBLY

ITEM NO	PART NO	DESCRIPTION	QTY
1	0150107	1/2”-13 x 2”	4
2	0150304	1/2” Flat Washer	16
3	0150206	1/2”-13 Lock Nut	8
4	0500110A	Pillow Block Bearing – 1 1/4”	2
5	0450107	Round Pocket - Thd.	6
6	0450104A	Tooth – Left 25°	5
7	900106	Cutter Wheel	1
8	0450104B	Tooth – Right 25°	3
9	0450101	Tooth – Straight	2
10	0450108	5/8”-18 x 1 3/4”	12
11	0450106	Round Pocket - C/S	6
12	–	Key	1
13	0150106	1/2”-13 x 1 3/4”	4
14	900106A	Cutter Wheel Shaft	1



STUMP CUTTERS

MODEL	TYPE	ENGINE	HP	FUEL	CUTTING DEPTH	CUTTING HEIGHT	CUT SWING	NO. TEETH	WHEEL DIA.	WHEEL THICKNESS	TONGUE EXTENSION	WEIGHT (lbs.)
900H	Walk-Behind	Honda	13	Gas	9"	21"	N/A	12	12.25"	.5"	N/A	220
SP2000	Walk-Behind	Kohler	27	Gas	24"	27"	N/A	16	19"	.5"	N/A	695
SP4012	Self-Propelled	Kohler	27	Gas	13"	34"	40" arc	20	21"	1"	30"	1,550
	Self-Propelled	Briggs-Vanguard	35	Gas	13"	34"	40" arc	20	21"	1"	30"	1,650
	Self-Propelled	Lombardini	28.7	Diesel	13"	34"	40" arc	20	21"	1"	30"	1,650
SP7015	Self-Propelled	Deutz Turbo	60	Diesel	15"	43"	70" arc	32	26.5"	1"	N/A	3,500
SP7015TRX	Track-Mounted	Deutz Turbo	60	Diesel	15"	43"	70" arc	32	26.5"	1"	N/A	4,300
SP8018 TRX	Track-Mounted	Deutz Turbo	78	Diesel	18"	43"	80" arc	32	26.5"	1"	N/A	5,420
HURRICANE RS	Track-Mounted	John Deere Turbo	140	Diesel	25"	53"	360°	48	31"	1.5"	N/A	8,500
HURRICANE TRX	Track-Mounted	John Deere Turbo	140	Diesel	25"	72"	360°	64	36"	1.5"	N/A	12,000
	Track-Mounted	John Deere Turbo	175	Diesel	25"	72"	360°	64	36"	1.5"	N/A	12,000
	Track-Mounted	John Deere Turbo	250	Diesel	25"	72"	360°	64	36"	1.5"	N/A	12,000
3500D	Tow-Behind	Deutz Turbo	60	Diesel	15"	40"	80" arc	32	26.5"	1"	48"	2,900
7500	Tow-Behind	Deutz Turbo	78	Diesel	24"	46"	92" arc	48	31"	1.5"	60"	4,400

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